

ABSTRACTAPPARATUS AND PROCESS FOR OXIDATION REACTIONS

A reactor and process for using same, for containing a solid catalyst for heterogeneous gas-phase reactions into which reactor there extends at least one inlet pipe for a molecular oxygen-containing gas which has means for surrounding a substantial portion of the pipe in the reactor with an inert fluid and optionally also has means for suppressing ingress to the inlet pipe from the reactor of flame, reagents, products, catalyst or combinations thereof. The reactor and process are particularly suitable for fluid bed reactions.